REVISIONS			
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Prepared in accordance with ASME Y14.100

Selected item drawing

REV STATUS OF PAGES	REV																	
	PAGES	1	2	3	4	5												

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Original date of drawing 21 March 2007	**CHECKED BY** Eugene A. Ebert **APPROVED BY** Michael Radecki	**TITLE** **TOOL, INSTALLATION AND REMOVAL, TERMINI, FIBER OPTIC CABLE ASSEMBLY (CECOM DRAWING A3302584)**
	SIZE **A** / **CODE IDENT. NO.** **037Z3**	**DWG NO.** **04055**
	SCALE N/A / REV	PAGE 1 **OF** 5

1. SCOPE

1.1 Scope. This drawing describes the requirements for a tool used to install and remove termini from fiber optic connectors per CECOM drawing A3302584.

1.2 Part or Identifying Number (PIN). The complete PIN shall be as follows:

04055
↓
Drawing
number

2. APPLICABLE DOCUMENTS

2.1 General. The documents listed in this section are specified in sections 3 and 4 of this specification. This section does not include documents cited in other sections of this specification or recommended for additional information or as examples. While every effort has been made to ensure the completeness of this list, document users are cautioned that they must meet all specified requirements of documents in sections 3 and 4 of this specification, whether or not they are listed.

2.2 Government documents.

2.2.1 Other Government documents, drawings, and publications. The following other Government documents, drawings, and publications form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those cited in the solicitation or contract.

CECOM drawing	A3302584	Fiber Optic Cable Assemblies

(Copies of this drawing are available by email at Charles.Alcott@us.army.mil or by calling (732) 532-3741).

2.3 Order of precedence. In the event of a conflict between the text of this document and the references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

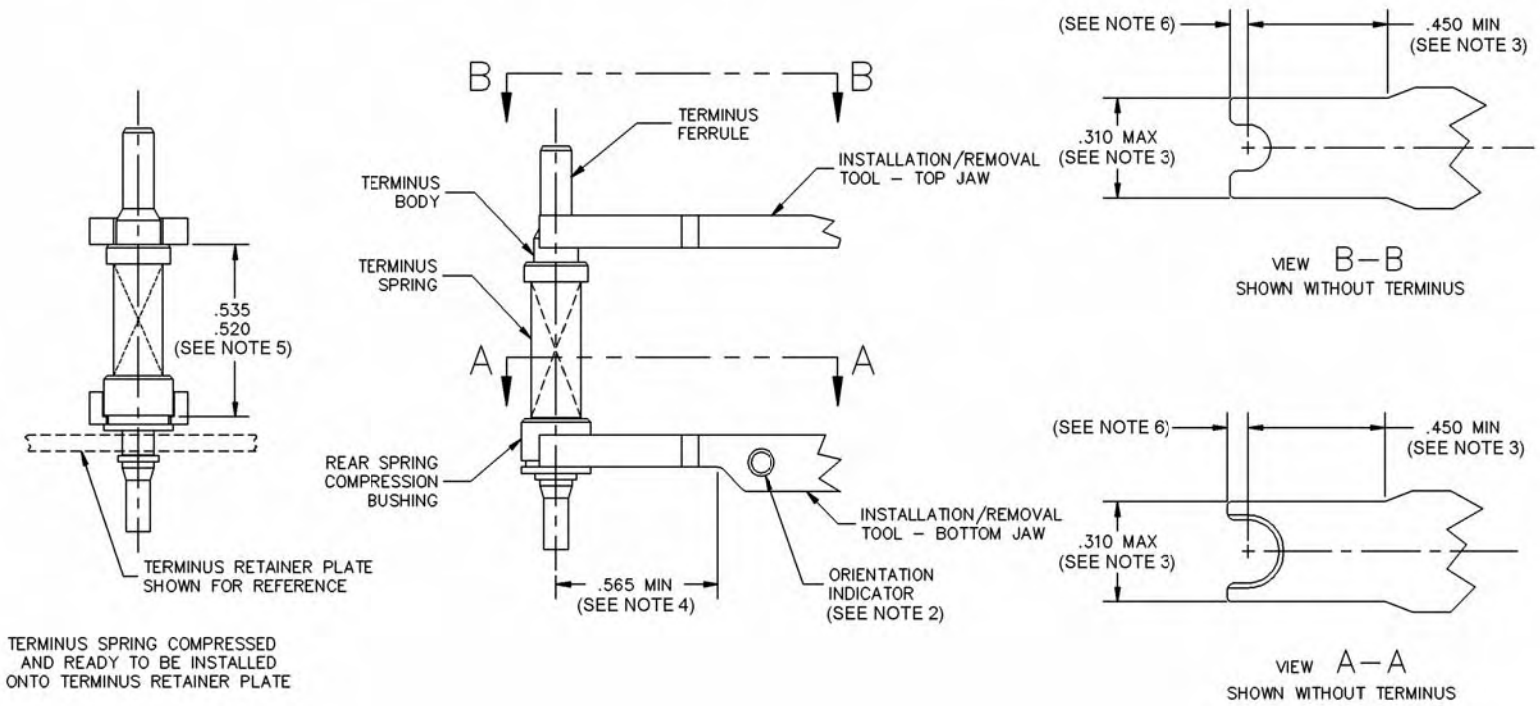
3. REQUIREMENTS

3.1 Interface and physical dimensions. See figure 1.

3.2 Functional. Tool shall be capable of capturing a terminus and using only hand force applied, the tool shall be capable of compressing the terminus spring. Applying only hand pressure, the tool shall also be capable of lifting the terminus 12 inches above the horizontal surface and holding it for not less than 30 seconds without the terminus falling or being ejected from the tool. With the spring compressed and a wire looped around the exposed termini body diameter, the tool shall be able to exert a force of 16 ounces minimum on the wire.

3.3 Recycled, recovered, or environmentally preferable materials. Recycled, recovered, or environmentally preferable materials should be used to the maximum extent possible, provided that the material meets or exceeds the operational and maintenance requirements, and promotes economically advantageous life cycle costs.

3.4 Materials. Materials utilized shall be selected for wear characteristics.



NOTES:

1. Dimensions are in inches.
2. Where jaws are not visually discernable, denotes bottom jaw of tool to facilitate proper orientation to rear spring compression bushing.
3. Allows clearance for insertion of tool between adjacent termini for jaw lengths (NOTE: This may not apply to optional jaw configuration).
4. Precludes interference between tool and terminus retainer plate for jaw lengths perpendicular to terminus axis (NOTE: This may not apply to optional jaw configuration).
5. Upper limit of dimension assures that rear spring compression bushing is properly positioned for installation onto terminus retainer plate. Lower limit of dimension prevents over-compression of terminus spring.
6. Metric equivalents are given for general information only.
7. Tool is designed for use with termini utilized in connectors per CECOM drawing A3302584.
8. Cutouts in jaws of tool shall be configured to permit entry into the designated areas of the termini.
9. Relationship of the top and bottom jaws of the tool must be as follows:
   a. Tool includes a stop to prevent over compression of the spring (see note 5).
   b. Compression of the terminus spring to its minimum of .520 inch (13.21 mm) (see note 5),does not result in the terminus being ejected from the tool.
10. Jaw configurations are provided in this figure for guidance only. Optional design variations are allowed, provided performance requirements of 3.2 are met.

FIGURE 1. Dimensions and configuration.

3.5 Certificate of compliance. A certificate of compliance shall be required from manufacturers requesting to be a suggested source of supply.

3.6 Marking. Marking shall consist of the PIN as specified herein (see 1.2), the manufacturer's name or Commercial and Government Entity (CAGE) code, and date lot codes.

3.7 Workmanship. The tool shall be uniform in quality and free from any defects that will affect life, serviceability, or appearance.

4. VERIFICATION

4.1 Sampling and inspection. Unless otherwise specified, sampling and inspection procedures shall be performed in accordance with conformance inspection specified using sampling plan indicated.

4.1.1 Conformance inspection. Conformance inspection shall consist of inspections necessary to verify compliance to figure 1 or optional configuration allowed and requirements listed herein including the functional requirement (see 3.2).

4.1.2 Sampling plan. A sample of parts shall be randomly selected from each lot in accordance with table I, if one or more defects are found, the lot shall be rescreened and defects removed. After screening and removal of defects, a new sample of parts shall be randomly selected using the sample size of the next larger lot size specified in table I. If one or more defects are found in the second sample, the lot shall be rejected and shall not be supplied to this drawing.

TABLE I. Conformance inspection sampling plan

Lot size		Sample size
1 to	25	3
26 to	50	5
51 to	90	6
91 to	150	7
151 to	280	10
281 to	500	11
501 to	1,200	15
1,201 to	3,200	18
3,201 to	10,000	22
10,001 and	over	29

5. PACKAGING

5.1 Packaging. For acquisition purposes, the packaging requirements shall be as specified in the contract or order (see 6.2). When packaging of materiel is to be performed by DoD or in-house contractor personnel, these personnel need to contact the responsible packaging activity to ascertain packaging requirements. Packaging requirements are maintained by the Inventory Control Point's packaging activities within the Military Service or Defense Agency, or within the military service's system commands. Packaging data retrieval is available from the managing Military Department's or Defense Agency's automated packaging files, CD-ROM products, or by contacting the responsible packaging activity.

6. NOTES

6.1 Intended use. This tool is intended to be used for installation and removal of termini from second generation tactical fiber optic connectors.

6.2 Ordering data. The contract or purchase order should specify the following:

a. Complete PIN (see 1.2).

b. Requirements for delivery of one copy of the conformance inspection data or certificate of compliance that parts have passed conformance inspection with each shipment of parts by the manufacturer.

c. Requirements for packaging and packing.

6.3 Users of record. Coordination of this document for future revisions is coordinated only with the suggested sources of supply and the users of record of this document. Requests to be added as a recorded user of this drawing may be achieved online at TubesFiberOptic@dla.mil or if in writing to: Defense Supply Center, Columbus, ATTN: DSCC/VAT, Post Office Box 3990, Columbus, OH 43218-3990 or by telephone (614) 692-0729 or DSN 850-0729.

6.4 Suggested sources of supply. Suggested sources of supply are listed herein (see table II). Additional sources will be added as they become available. Assistance in the use of this drawing may be obtained online at FiberOpticGroup@dscc.dla.mil or by contacting Defense Supply Center, Columbus, ATTN: DSCC-VAT, Post Office Box 3990, Columbus, OH 43218-3990 or by telephone (614) 692-0729 or DSN 850-0729.

TABLE II. Suggested sources of supply.

DSCC drawing PIN	Vendor similar designation or type number 1/	Vendor CAGE	Vendor name and address
04055	FSTP 0645	0YMP4	Amphenol Fiber Systems International 1300 Central Expressway North Suite 100 Allen, TX 75013 http://www.fibersystems.com
04055	182-010	06324	Glenair 1211 Air Way Glendale, CA 91201-2497 http://www.glenair.com
04055	0731-1132	08RC6	Kitco Fiber Optics 5269 Cleveland Street Virginia Beach, VA 23462-6556 http://www.kitcofo.com
04055	420-0125	1HVU5	Stran Technologies 39 Great Hill Road Naugatuck, CT 06770 http://www.strantech.com

1/ Parts must be purchased to the DSCC PIN to assure that all performance requirements and tests are met.